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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE U		ATTORNEY'S DOCKET NUMBER						
DESIGNATED/ELECTED OFFIC	E (DO/EO/US)	NU-631XX						
CONCERNING A SUBMISSION UND	DER 35 U.S.C. 371	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/586,713						
INTERNATIONAL APPLICATION NO. INTERNATIO	NAL FILING DATE	PRIORITY DATE CLAIMED						
PCT/US05/02226 20 Januar	y 2005	20 January 2004						
TITLE OF INVENTION								
ENHANCED DETECTION OF ACOUSTO-PHOTO		LLY TURBID MEDIA USING A						
PHOTO-REFRACTIVE CRYSTAL-BASED DETECTION APPLICANT(S) FOR DO/EO/US	STIONS SYSTEM							
Charles A. Dimarzio, Ronald A. Roy, Todd W. Murray, Florian J. Blonigen, Luis A. Nieva, Lei Sui, Gopi Maguluri								
Applicant herewith submits to the United States Designated/Ele	ected Office (DO/EO/US) the following	items and other information:						
1. Let This is a FIRST submission of items concerning a su								
2. X This is a SECOND or SUBSEQUENT submission of	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
3. This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.								
4. X The US has been elected (Article 31).	4. X The US has been elected (Article 31).							
5. A copy of the International Application as filed (35 U.	S.C. 371(c)(2))							
a. is attached hereto (required only if not communicated by the International Bureau).								
b. has been communicated by the Internation	b. has been communicated by the International Bureau.							
c. is not required, as the application was filed in the United States Receiving Office (RO/US).								
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).								
a. \square is attached hereto.								
b. \square had been previously submitted under 35 U	J.S.C. 154(d)(4).							
7. Amendments to the claims of the International Applic	cation under PCT Article 19 (35 U.S.C.	. 371(c)(3))						
a. are attached herewith (required only if not communicated by the International Bureau).								
b. have been communicated by the International Bureau.								
c. \coprod have not been made; however, the time lir	nit for making such amendments has I	NOT expired.						
d. U have not been made and will not be made								
	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9. X An oath or declaration of the inventor(s) (35 U.S.C. 3	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
10. An English language translation of the annexes to the Article 36 (35 U.S.C. 371(c)(5)).	e International Preliminary Examinatio	on Report under PCT						
Items 11 to 20 below concern document(s) or informa	tion included:							
11. An Information Disclosure Statement under 37 CFR	1.97 and 1.98.							
An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.								
13. A preliminary amendment.								
An Application Data Sheet under 37 CFR 1.76.								
15. A substitute specification.								
A power of attorney and/or change of address letter.								
	A computer readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.							
	A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19. A second copy of the English language translation o	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).							
20. Other items or information:		EXPRESS MAIL NO.						
		EV 560131483 US						

ſ	U.S. APPLICATION	S. APPLICATION NO. (If known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO				ATTORNEY'S DOCKET NUMBER				
	10/586,713	/586,713 PCT/US05/02226								
ľ		the following fees have been submitted:			•	CALCUL	ATIONS	PTO USE ONLY		
	21. D Basic	21. ☐ Basic national fee								
÷	If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) \$105.00 All other situations \$210.00									
									··· · · · · · · · · · · · · · · · · ·	
2	Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100.00 International Search Report prepared and provided to the Office \$410.00									
ŀ		All other situations								
	Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic									
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	Total Sheets	Extra Sheets			dditional 50 or fraction to a whole number)	RATE				
	- 100 =	/ 50 =		do alauak	:	X \$260.00	\$			
2		30.00 for furnishi date (37 CFR 1.4		ueciarat	ion later than 30 months f		\$130.00)		
	CLAIM	S N	JMBER FILED)	NUMBER EXTRA	RATE			T	
	Total claims		18 - 20 =		0	X \$ 50.00	\$0			
,	Independent clai		2 - 3 =		0	X \$210.00	\$0			
	MULTIPLE DEP	ENDENT CLAIM	I(S) (if applicat	ole)	TOTAL OF ABOVE CAL	+ \$370.00	\$0 \$130.00	<u> </u>		
	X Applican	* alaimaa amaall am	titu atatus. Ca	27 CE			\$65.00	<u>'</u>		
	م Applican	t claims smail en	itty status. Se	e 37 CF	R 1.27. Fees above are r	SUBTOTAL =	\$65.00			
	Processing fee o	of \$130.00 for fur	nishina the En	alish trar	nslation later than 30 mon		\$05.00 \$N/A			
		ned priority date (+	ļ			
	Eng for recording	a the enclosed as	esianment (37	CED 1 2		TIONAL FEE =	\$65.00 \$N/A			
	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +						\$N/A			
		TOTAL FEES ENCLOSED =				ENCLOSED =	\$65.00			
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01 FC	2617		65.00 OP				Amoun Charge		\$65.00	
					above fees, except assigned for the assignment rec		is enclose	d.		
	b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.									
	c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Deposit Account No. 23-0804. A duplicate copy of this sheet is enclosed.									
	d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
ļ	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
	SEND	ALL CORRESPO	ONDENCE TO):	which is associated	with the Law Firm o	т.			
	[X]	Customer Numb	oer 00207		Ten Post Office Squ Boston, Massachuse United States					
	Attorney Name: Richard E. Gamache Telephone: (617) 542-2290 Fax: (617) 451-0313 Attorney Name: Richard E. Gamache Registration No: 39,196 Doc.#359701									



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY. DOCKET NO. 10/586,713 NU-631XX Charles A. Dimarzio INTERNATIONAL APPLICATION NO. 207 PCT/US05/02226 WEINGARTEN, SCHURGIN, GAGNEBIN & LEBOVICI LLP TEN POST OFFICE SQUARE I.A. FILING DATE PRIORITY DATE BOSTON, MA 02109 01/20/2005 01/20/2004 RECEIVED

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WEINGARTEN, SCHURGIN.

CONFIRMATION NO. 8694 371 FORMALITIES LETTER

*OC00000026692299

Date Mailed: 11/09/2007

GAGNEBIN & LEBOVICI LLP

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- · Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 07/20/2006
- · Copy of the International Search Report filed on 07/20/2006
- Copy of IPE Report filed on 07/20/2006
- Information Disclosure Statements filed on 10/24/2006
- Small Entity Statement filed on 07/20/2006
- U.S. Basic National Fees filed on 07/20/2006
- Priority Documents filed on 07/20/2006
- Power of Attorney filed on 05/31/2005
- Specification filed on 07/20/2006
- Claims filed on 07/20/2006
- · Abstracts filed on 07/20/2006
- Drawings filed on 07/20/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$65 for a Small Entity:

• \$65 Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

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The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

PATRICIA A BOOKER	
Telephone: (703) 308-9140 EXT 204	